ZAVALISHIN, D.A. (Leningrad); ZAKHAREVICH, S.V. (Leningrad); TIKAN, V.A. (Leningrad)

Analysis of the effect of active resistance on electromagnetic processes in single-phase ionic converters of electric locomotives. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.5:3-18 S-O '59. (MIRA 13:1)

(Electric locomotives) (Electric current converters)

12(3)

AUTHORS: Zavalishin, D. A., Professor, Doctor of Technical Sciences, Zakharevich, S. V., Engineer, Tikan, V. A., Engineer SOV/105-59-6-1/28

TITLE: Model Investigation of a Thermionic Electric Locomotive Rectifier Under Inverter and Rectifier Operation (Issledovaniye na modeli ionnogo preobrazovatelya elektrovoza v invertornom i vypryamitel'nom rezhimakh)

PERIODICAL: Elektrichestvo, 1959, Nr 6, pp 1 - 8 (USSR)

ABSTRACT: In this article the analysis and the results of the investigation of a model thermionic converter of the electric locomotive NO are presented, which has been tested on the line Ozherelye - Pavelets. The following indicative quantities of the rectifier operating as an inverter were determined: Maximum backfeed power. Power factor. Voltage at the current collector. Ripple coefficient of the rectified current. The fundamental equations are given for a transformer with zero tap and for a bridge rectifier circuit. The engineering data of the original machine and of the model are compared in a table. The power scale is 1/662. In the model thyratrons of the type TG 1-5/3, traction motors PN-100 and on the same shaft d.c. generators serving either as load or drive, were used. The investigation of inverter

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Model Investigation of a Thermionic Electric Locomotive Rectifier Under Inverter and Rectifier Operation

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operation was carried out at control angles varying from 60-174° under different operational conditions. The results of the investigation are discussed in detail, making use of 7 diagrams. With increasing distance between the locomotive and the substation the power performance deteriorates considerably; this entails a worse power factor of the locomotive and of the substation. The angle of transition between an inverter and a rectifier operation is not definitely set. Recuperation is possible at small control angles between 60-70°. An increase of the power factor and a diminution of the ripple coefficient is, however, only possible for a control angle as large as possible (little advanced ignition). The inductivity of the choke inductance must be increased only little, if instead of the control angle the ignition angle is kept constant. If the distance between the locomotive and the substation is large, the inverter backfeed energy is about equal to the rectifier backfeed energy. The power factor is diminished by a conversion to an inverter operation. There are 7 figures, 1 table, and 4 Soviet references.

ASSOCIATION: Institut elektromekhaniki AN SSSR (Institute of Electromechanics AS USSR)

SUBMITTED: October 27, 1958

Card 2/2

ZAVALISHIN, D.A.

PHASE I BOOK EXPLOITATION SOV/4706

Akademiya nauk SSSR. Institut elektromekhaniki

Sbornik rabot po voprosam elektromekhaniki, vyp. 4: Elektricheskiye mashiny, elektricheskiy privod, elektricheskaya tyaga na peremennom toke, avtomatizirovannyy elektroprivod teleskopov, avtomaticheskoye regulirovaniye i pribory (Collection of Works on Problems in Electromechanics, No. 4: Electric Machines, Electric Drive, A-C Electric Traction, Automated Electric Drive of Telescopes, Automatic Regulation and Instruments) Moscow, 1960. 282 p. 5,500 copies printed.

Resp. Ed.: V. V. Sidel'nikov; Ed. of Publishing House: I. V. Suvorov; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: This collection of works is intended for specialists in electromechanics.

COVERAGE: The collection contains 28 works divided into three sections: 1) Electric Machines, 2) Electric Drive and Electric Traction; 3) Automated Electric Drive, and Automatic Regulation and Instruments. No personalities are mentioned. References accompany most of the articles.

KULEBAKIN, Viktor Sergeyevich; SINDEYEV, Igor' Mikhaylovich; DAVIDOV, Pavel Davidovich; FEDOROV, Boris Fedorovich [deceased]; ZAVALISHIN, D.A., prof., doktor tekhn.nauk, zasluzhennyy deyatel' nauki i tekhniki RSFSR, retsenzent; SENKEVICH, A.M., dotsent, kand.tekhn.nauk, red.; MOROZOVA, P.B., izdat.red.; ORESHKINA, V.I., tekhn.red.

[Electric systems of ignition, heating, and lighting of airplanes] Elektricheskie sistemy zazhiganiia obogreva i osveshcheniia samoletov. Moskva, Gos.nauchno-tekhn.izd-vo Oborongiz, 1960. 372 p. (MIRA 13:5)

(Airplanes--Electric equipment)

ZAVALISHIN, D.A.; ZAKHAREVICH, S.V.

Semiconductor frequency converter for electric locomotives with asynchronous traction motors. Sbor. rab. po vop. elektromekh. no.10:267-276 '63. (MIRA 17:8)

RUDAKOV, Viktor Vasil'yevich; ZAVALISHIN, D.A., doktor tekhn. nauk, prof., nauchn. red.

[Design and modeling of automated electric drives] Raschet i modelirovanie avtomatizirovannykh elektroprivodov. Moskva, Nauka, 1965. 135 p. (MIRA 18:12)

1. Chlen-korrespondent AN SSSR (for Zavalishin).

ROVINSKIY, Petr Abramovich; TIKAN, Valentin Antonovich; ZAVALISHIN, D.A., otv. red.

[Cut-off valve frequency changers without a direct current section] Ventil'nye preobrazovateli chastoty bez zvena postoiannogo toka. Moskva, Nauka, 1965. 74 p. (MIRA 18:12)

1. Chlen-korrespondent AN SSSR (for Zavalishin).

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ACC NR: AP6027359 SOURCE CODE: UR/0281/66/000/001/0017/0030

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13

AUTHOR: Zavalishin, D. A. (Leningrad)

ORG: none

TITLE: Present status and prospects for the development of electromechanical rectifier systems

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 1, 1966, 17-30

TOPIC TAGS: electronic rectifier, electronic circuit, electric equipment, electric motor

ABSTRACT: This is a survey on the basis of 15 Soviet references of the present status of the basic electromechanical rectifier systems. It covers the circuits of a.c. electrical machines, d.c. motors with valve collectors, valve frequency converters in conjunction with a.c. electrical machines, asynchronous-valve stages, and d.c. valve transformers. Particular attention has been paid to electromechanical-semiconductor units since this branch seems to be the most promising one for future development and improvements. The article concludes with a twelve-point set of recommendations for future scientific research in the given field. Orig. art. has: 9 figures. [JPRS: 36,462]

SUB CODE: 09 / SUBM DATE: 25Mar65 / ORIG REF: 015

UDC: 621.313.13

0485

0477

Card 1/1 mlp

ZAVALISHIN, D.A., prof.; SHUKALOV, V.F., insh.

Valve-type frequency converters designed for frequency speed regulation of asynchronous motors. Vest. elektroprom. 32 no.6:41-48 Je '61. (MIRA 16:7)
(Electric motors, Induction)

ZAVALISHIN, D.A. (Leningrad); BOBROVA, R.F. (Leningrad); PARFENOV, E.Ye. (Leningrad)

Regulation of the angular velocity of large asynchronous electric motors in a cascade network with transistor converters. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.3:51-64 My-Je '62. (MIRA 15:6)

(Electric motors, Induction)

ZAVALISHIN, D.A., prof.; PROZOROV, V.A., inzh.

Frequency controlled electric drive for a horizontal planing mill. Elektrichestvo no.7:75-79 Jl '61. (MIRA 14:9)

1. Institut elektromekhaniki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Zavalishin).
(Planing mills--Electric driving)

S/196/62/000/011/009/009
E194/E155

AUTHORS: Zavalishin, D.A., and Prozorov, V.A.

TITLE: Regulating systems for a.c. electric drives with frequency control

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.11, 1962, 4, abstract 11 K18. (Sbornik 'Spets. vopr. avtomatizir. elektroprivoda' ('Special problems of automation of electrical drives'), Moscow-Leningrad, AN SSSR, 1961, 17-70).

TEXT: Electrical machine drive systems are considered and also the main systems of electronic-ionic and semiconductor frequency-changers. The induction frequency-changer drive has been used for the fans of a wind tunnel, and in various electric locomotives having induction-type traction motors, and also in other drives. The usual circuits for induction frequency-changers are considerably simplified if the motor-generator set is replaced by ionic convertors. The synchronous alternator drive system has been used in the USSR for driving mill rolls and in a number of special drives. An important disadvantage of the system is that

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Regulating systems for a.c. electric.. S/196/62/000/011/009/009
E194/E155

the entire power required by the final drive motors is delivered from the shaft of the main driving motor, although with this system it is relatively simple to control the voltage applied to the motor. Systems with induction frequency-changers and synchronous generators and other similar systems have the important defect that when changing the frequency it is necessary to change the speed of the main supply set, and the possibility of controlling the voltage independently of the frequency is limited. The drive system using a compensated commutator generator is free from these defects; the theory and calculation of its main characteristics are given. Its disadvantage is the relatively high power required of the generator excitation - about 15-25% of the main circuit power. Measures are considered that may reduce the apparent power of the exciter. The authors offer a procedure for designing control circuits to give static characteristics, in particular for excavators.

[Abstractor's note: Complete translation.]

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S/196/61/000/012/023/029
E194/E155

AUTHORS: Zavalishin, D.A., and Shukalov, V.F.

TITLE: Valve-type frequency convertors intended for frequency speed control of induction motors

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.12, 1961, 11-12, abstract 12K 78. (Vestn. elektroprom-sti, no.6, 1961, 41-48)

TEXT: The article considers circuits of valve-type frequency changers. Independent frequency-changers with capacitor switching (bridge circuit three-phase invertor) require greatly increased capacitance when the frequency is reduced. For example, for an induction motor of 28 kW, 500 V, 1000 r.p.m. at a frequency of 50 c/s a reactive power of 26 kVAR is required; at 10 c/s 650 kVAR; and at 5 c/s 2600 kVAR. For such a frequency changer to operate stably it is necessary to control the converted d.c. voltage and the capacitance of the switching and compensating capacitors. This control should be effected on changing the output frequency of the frequency changer, the load

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Valve-type frequency convertors ...

on the motor during starting or retarding. It should also maintain the overload capacity of the motor and reserve stability of the invertor. Therefore, this type of frequency changer should be used only when operating on a stable load and with a small range of output frequencies. The circuit of an independent frequency-changer with limited switching capacitors has uncontrolled semiconductor rectifiers connected in series with the controlled rectifiers; the uncontrolled rectifiers limit the operation of the capacitors only during the short-term switching interval and, therefore, their capacitance remains constant over the whole range of frequency control. Working characteristics are given of a motor supplied from the frequency-changer and for comparison one supplied from an alternator at 50 c/s. The motor was tested in the frequency range 5 - 50 c/s and in the load range from no-load to 25% overload. The frequency-changer operated stably under motor starting, retardation and certain fault conditions. The circuit of a direct frequency-changer switched by the voltage of the primary circuit may be used when the periodic time of the low frequency is many times greater

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than that of the supply voltage (for instance, when converting a frequency of 200-400 c/s to a controlled frequency of 0-50 c/s) and when a whole number of primary half-waves may be contained within a single half-period of secondary frequencies. Here, some complication of the grid control circuit is required to ensure that the secondary voltage is of sinusoidal waveform. The grid control circuit may be based either on mechanical switching with phase-shifting bridges and peak transformers or on static magnetic-semiconductor circuits acting on the same bridges and peak transformers. Oscillograms are given of the current and voltage of a three-phase motor of 2 kW, 380 V, 50 c/s taken with a secondary frequency of 15 c/s, 115 V supplied from a single-phase circuit of 400 c/s.
8 literature references.

[Abstractor's note: Complete translation.]

ZAVALISHIN, D.A.

PHASE I BOOK EXPLOITATION SOV/5533

Akademiya nauk SSSR. Institut elektromekhaniki.

Spetsial'nyye voprosy avtomatizirovannogo elektroprivoda (Special Problems of the Automatic Electric Drive) Moscow, Izd-vo AN SSSR, 1961. 248 p. Errata slip inserted. 6,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut elektromekhaniki.

Eds. (Title page): D.A. Zavalishin, Corresponding Member, Academy of Sciences USSR, and V.V. Rudakov, Candidate of Technical Sciences; Ed. of Publishing House: N.V. Travin; Tech. Ed.: R.A. Arons.

PURPOSE: This book is intended for technical personnel engaged in designing or operating regulated and automated electric drives for machines and mechanisms. It may also be useful to students in advanced courses working on term and degree projects.

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Special Problems of (Cont.) SOV/5533

COVERAGE: The book discusses the principles of operation and the methods of computation of regulated drives with a-c and d-c motors. Special attention is paid to problems related to the frequency method of induction motor control, which the authors consider the most promising. Recommendations regarding the use of a-c commutator motors and induction motors with special winding and improved starting characteristics are made. A considerable part of the book is devoted to problems of design and calculation of the control circuits for automated d-c drives, and to methods of investigating dynamic characteristics of d-c drive systems by means of electronic and electrodynamic models. Recent developments in regulated d-c drives and modern methods of analyzing and synthesizing automated d-c systems, based on investigations carried out by the Institut elektromekhaniki AN SSSR (Institute of Electromechanics AS USSR), are discussed in detail. The book was written by the following persons: A. A. Dartau (Chs. II and III), D. A. Zavalishin (Introduction, sections 1, 4, 5, and 6 of Ch. I, and Ch. II); S. V. Korotkov (Ch. VI, sec. 3);

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I. I. Laptev (sections 4 and 5 of Ch. V); O. V. Popov (Ch. IV; sections 2, 4, and 5 of Ch. V, and sec. 3 of Ch. VI,); V. A. Prozorov (sections 1, 2, and 3 of Ch. I.); V. V. Rudakov (Introduction, sec. 1 of Ch. V, sections 1 and 4 of Ch. VI); V. V. Semenov (sec. 3 of Ch. V); Ye. M. Smirnov (sec. 2 of Ch. VI); E. F. Stepura (sec. 3 of Ch. V); A. V. Fateyev (Introduction). There are 69 references: 59 Soviet, 7 German, 2 English, and 1 French.

TABLE OF CONTENTS:

BERTINOV, Al'bert Iosifovich; NAGORSKIY, V.D., doktor tekhn. nauk, prof., retsenzent; ZAVALISHIN, D.A., doktor tekhn. nauk, prof., retsenzent; INOZEMTSEV, S.P., kand. tekhn. nauk, red.; BELEVTSEVA, A.G., red. izd-va; SHCHERBAKOV, P.V., tekhn. red.

[Electric machinery in aeronatucal automatic control systems] Elektricheskie machiny aviatsionnoi avtomatiki. Moskva, Gos. nauchno-tekhn. izd-vo Oborongiz, 1961. 426 p. (MIRA 14:9)

1. Chlen-korrespondent AN SSSR (for Zavalishin).
(Electronics in aeronatics) (Airplanes—Electric equipment)

ZAVALISHIN, D.A., red.; RUDAKOV, V.V., kand.tekhn.nauk, red.; TRAVIN, M.V., red.izd-va; ARONS, R.A., tekhn.red.

[Specialized problems concerning the automatic control of electric drives] Spetsial'nye voprosy avtomatizirovannogo elektroprivoda. Pod red. D.A.Zavalishina i V.V.Rudakova. Moskva, 1961. 248 p. (MIRA 14:4)

1. Akademiya nauk SSSR. Institut elektromekhaniki. 2. Chlen-korrespondent AN SSSR (for Zavalishin).
(Electric driving) (Automatic control)

ZAVALISHIN, Dmitriy Aleksandrovich; BARDINSKIY, Sergey Ivanovich; PEVZNER, Osip Borisovich; FROLOV, Boris Vasil'yevich; KHRUSHCHEV, Vitaliy Vasil'yevich; USSER, A.S., red.; ZHITNIKOVA, O.S., tekhn. red.

[Electrical machines with low-power ratings] Elektricheskie mashiny maloi moshchnosti. [By] D.A.Zavalishin i dr. Moskva, Gosenergoizdat, 1963. 431 p. (MIRA 17:2)

ZAVALISHIN, F.S., kand. tekhn. nauk

Fundamental principles underlying the efficient plotting of continuous production processes in agriculture. Mekh. i elek. sots. sel'khoz. 21 no.3:15-18 '63. (MIRA 16:8)

1. Kazanskiy sel'skokhozyaystvennyy institut.
(Agricultural machinery)

ZAVALISHIN, F. S.

"Improving the Construction of Agricultural Machines and Equipment,"

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Making ridges on slopes for retention of run-off water, Kolkh. proizv., 12, No. 7, 1952.

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2. USSR (600)

4. Hargesting Machinery

7. Evaluating straw harvesting equipment. Dokl.AK. sil'khoz. 17 no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

USMANOV, Yu.Kh.; ZAVALISHIN, F.S., redaktor

[Highly efficient use of grain combines] Vysokoproizvoditel'noe izpol'zovanie zernovykh kombainov. Kazan', Tatknigoizdat, 1955. 31 p. (MLRA 10:2)

(Combines (Agricultural machinery))

Zavalishin, F. S.

Mekhanizatsiya Vozdelyvaniya Kukuruzy
(Mechanization of Cultivating Maize)
Kazan', Tatknigoizdat, 1955.

63 P. Illus., Diagrs.

ZAVALISHIN, I.

[Greatest in the world] Krupneishaia v mire; literaturnaia zapis' I.Sibirtseva. Krasnoiarsk, Krasnoiarskoe knizhnoe izd-vo, 1957. 55 p. (MIRA 16:8)
(Siberia--Hydroelectric power stations)

FEDOROV, L.T., kand.tekhn.nauk; LEONT'YEVSKIY, B.B.; GIL'DENBLAT, Ya.D., kand.tekhn.nauk; KORENISTOV, D.V.; ROSSINSKIY, K.I., kand.tekhn. nauk; KUZ'MIN, I.A., kand.tekhn.nauk; KONDRATSKAYA, A.A., inzh.; NISAR-MUKHAMEDOVA, G.N., inzh.; PANOVA, G.M., inzh.; ROZHDESTVENSKIY, G.L., inzh.; SEMIKOLENOV, A.S., inzh.; TSAREVSKIY, S.V., inzh.; ZHUKOVA, M.F., inzh.; GRISHIN, M.M., retsenzent; KRITSKIY, S.N., doktor tekhn.nauk, red.; MENKEL', M.F., doktor tekhn.nauk, red.; GALAKTIONOV, V.D., kand.geol.-min.nauk, red.; ZAVALISHIN, I.S., inzh., red.; MALYSHEV, N.A., inzh., red.; MIKHAYLOV, A.V., doktor tekhn. nauk, red.; PETROV, G.D., inzh., red.; RAPOPORT, Ya.D., red.; RUSSO, G.A., kand.tekhn.nauk, glavnyy red.; SEVAST'YANOV, V.I., inzh., red.; TITOV, S.V., inzh., red.; TISTROVA, O.N., red.; LARIONOV, G.Ye., tekhn.red.

[Hydrology and water economy of the Volga-Don] Gidrologiia i vodnoe khoziaistvo Volgo-Dona. Pod red. S.N.Kritskogo i M.F.Menkelia. Moskva, Gos.energ.izd-vo, 1960. 146 p. (MIRA 13:11)

1. Moscow. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-issledovatel'skiy institut "Gidroproyekt" imeni S.Ya.Zhuk. 2. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin). (Don River--Water resources development)

ZAVALISHIN, I., inzh.; TOMAS, G., inzh.

Floating dwellings for builders. Zhil. stroi. no.9:31 '64. (MIRA 17:12)

ZAVALISHIN, I. S.

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USSR/Engineering
Excavating Machinery
Blasting

"The Mingechaurskiy Hydro System," I. S. Zavalishin, Engr, 3/4 p

"Gidrotekh Stroi" No 4

Claims use of general hydromechanization at Mingechaurgesstroy has limited possibilities because only the upper formations, which are insignificant in size, are composed of soft rocks. Describes large-scale blasting operations and gives reasons for various related problems.

45/49T40

TKALICH, S.M.; MINEYEV, I.K., glavnyy red.; RYABENKO, V.Ye., zam. glavnogo red.; TUMOL'SKIY, L.M., zam. glavnogo red.; KUR'YANOV, F.K., otv. zav vypusk; BASSOLITSYN, Ye.P., red.; BLINNIKOV, I.I., red.; DAUKSHO, Yu.Ye., red.; DZINKAS, Yu.K., red.; ZHARKOV, M.A., red.; ZAVALISHIN, M.A., red.; MANDEL'BAUM, M.M., red.; MATS, V.D., red.; MALETOV, P.I. red.; NOMOKONOVA, N., red.; NOSEK, A.V., red.; SERD, A.I., red.; SEMENYUK, V.D., red.; TAYEVSKIY, V.M., red.; TIKHONOV, V.L., red.; TROFIMUK, I.N., red.; TOMILOVSKAYA, M.V., red.; FOMIN, N.I., red.; SHAMES, P.I., red.; TROSHANIN, Ye.I., tekhn. red.

[Biogeochemical anomalies and their interpretation.] Biogeokhimicheskie anomalii i ikh interpretatsiia. Irkutsk, 1961. 39 p. (Materialy po geologii i poleznym iskopaemym Irkutskoi oblasti no.3). (MIRA 17:1)

ZAVALISHIN, M.A.; KARPOV, I.K.

Metasomatic nature of the microcline diagram of pegmatites in the Mama Valley. Zap. Vses. min. ob-va 92 no.6:733-736 '63. (MIRA 18:3)

ZAVALISHIN, M. A.

Geological mapping of crystalline schist areas. Sov. geol. 5 no.10:109-112 O '62. (MIRA 15:10)

1. Irkutskoye geologicheskoye upravleniye.

(Schists—Maps)

ZAVALISHIN, N., prof., general-leytenant meditsinskoy sluzhby

Fight for soldiers' lives. Tyl. i snab. Sov. Voor. Sil 21 no.6129-33 Je '61. (MIRA 14:8)
(World War, 1939-1945--Medical and sanitary affairs)

17( ) SOV/177-58-5-1/30

AUTHOR: Zavalishin, N.I., Lieutenant-General of the Medical Corps, Professor

TITLE: From the Work Experience of the Medical Corps During the Great Patriotic War (Iz opyta raboty meditsinskoy sluzhby v Velikuyu Otechestvennuyu voynu). From Recollections of a Participant of the Great Patriotic War (Iz vospominaniy uchastnika Velikoy Otechestvennoy voyny)

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 5, pp 3-10 (USSR)

ABSTRACT: The author gives a survey on the development and activity of the Medical Corps during WW II. He mentions the physicians V.Ye. Khokhryakov, A.P. Stepanov, Ya.B. Kapilevich, B.A. Osipov, the Chief Surgeon of a Medical Batallion, Major Trofimov, and the pilots

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From the Work Experience of the Medical Corps During the Great Patriotic War. From Recollections of a Participant of the Great Patriotic War.

assisting in Air Medical Research, Rubtsov, Bykov, Altyshenko, Kapanadze and Zhukova. There are 3 Soviet references.

BAKULEV, A.N., akademik, glav. red.; ZAVALISHIN, N.I., prof., zam. glav. red.; TIMAKOV, V.D., prof., zam. glav. red.; GRISHINA, L.A., st. tekhn. red.

[Large medical encyclopedia] Bol'shaia meditsinskaia entsiklopediia. Glav. red. A.N. Bakulev. Moskva,, Gos. nauchn. izd-vo "Sovetskaia entsiklopediia." Vol.33. Tunberga metod - khlorokruorin. Izd.2. 1963. 1248 columns. ___[List of articles and terms for the letters "T", "U", "F", "Kh"] Perechen' statei i terminov na bukvy "T", "U", "F", "Kh" (tridtsat'tretii tom) 8 p. ___ [Phonorecord of sound phenomena appended to the article "Heart tones"] Grammofonnaia plastinka soderzhit zapis' zvukovykh iavlenii k stat'e "Tony serdtsa," no.35.

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[Large Medical Encyclopedia] Bol'shaia meditsinskaia entsiklopediia. Glav. red. A.N.Bakulev. Moskva, Gos. nauchn. izd-vo "Sovetskaia entsiklopediia." Vol.34. Khlorofilly-Ekskokhleatsiia. Izd.2. 1964. 1296 columns. [List of articles and terms for the letters "Kh", "TS", "Ch", "Sh", "Shch", "E"] Perechen' statei i terminov na bukvy "Kh", "TS", "Ch", "Sh", "Shch", "E" (tridtsat' chetvertyi tom) 4 p. ___ [Phonorecord to the article "Tuberculosis" Gramofonnaia plastinka k stat'e "Tuberkulez," no.36. (MIRA 17:6)

BAKULEV, A.N., akademik, glav. red.; ZAVALISHIN, N.I., prof., zam. glav. red.; TIMAKOV, V.D., prof., zam. glav. red.; GRISHINA, L.A., st. tekhn. red.

[Large medical encyclopedia] Bol'shaia meditsinskaia entsiklopediia. Moskva, Gos.nauchn. izd-vo "Sovetskaia entsiklopediia." Vol.31. Spinnoi mozg - tenesmy. Izd.2, 1963. 1248 colums.___ [List of articles and terms for the letters "S" and "T". Perechen' statei i terminov na bukvu "S" i "T" (tridtsat' pervyi tom) 4 p. ___[Phonorecord of sound phenomena appended to the article "Senile dementia."/] Grammofonnaia plastinka soderzhit zapis' zvukovykh iavlenii k stat'e "Starcheskoe slaboumie." (MIRA 16:9)

(MEDICINE—DICTIONARIES)

BAKULEV, A.N., akademik, glav. red.; ZAVALISHIN, N.I., prof., zam. glav. red.; TIMAKOV, V.D., prof., zam. glav. red.; IL'ICHEVA, K.I., starshiy nauchnyy sotr., red.; GRISHINA, L.A., starshiy tekhn. red.

[Large medical encyclopedia] Bol'shaia meditsinskaia entsiklopediia. Glav. red. A.N.Bakulev. Moskva, Gos.nauchn. izd-vo "Sovetskaia entsiklopediia." Vol.29. Rupiia - Seroterapiia. Izd.2. 1963. 1215 columns. [List of articles and terms for the letters "R" and "S"]Perechen' statei i terminov na bukvy "R", "S" (dvadtsat' deviatyi tom) 4 p. [Phonorecord of sound phenomena ("Scanning speech") appended to the article "Multiple sclerosis"]Grammofonnaia plastinka soderzhit zapis' zvukovykh iavlenii ("Skandirovannaia rech'") k stat'e Rasseiannyi skleroz.

(MEDICINE--DICTIONARIES) (MIRA 16:4)

BAKULEV, A.N., akademik, glav. red.; ZAVALISHIN, N.I., prof., zam. glav. red.; TIMAKOV, V.D., prof., zam. glav. red.; IL'ICHEVA, K.I., starshiy nauchnyy red.; OBYSOVA, Ye.S., starshiy nauchnyy red.; PAVLOVA, A.A., starshiy nauchnyy red.; BAKANOVA, T.D., nauchnyy red.; LEBEDEVA, A.K., red.; GRISHINA, L.A., tekhn. red.

[Large medical encyclopedia]Bol'shaia meditsinskaia entsiklopediia. Glav.red. A.N.Bakulev. Moskva, Gos.nauchn. izd-vo "Sovetskaia entsiklopediia." Vol.27. Profilaktika - Reverden. Izd.2. 1962. 1224 columns. ___ [List of articles and terms for the letters "P" and "R"]Perechen' statei i terminov na bukvy "P" i "R" (dvadtsat'sed'moi tom) 4 p. ___[Phonorecord appended to the article "Heart defects" (Combined heart defects)]Gramofonnaia plastinka k stat'e "Poroki serdtsa" (Kombinirovannye poroki serdtsa). Vol.28. Revmatizm - Rumyniia. Izd.2. 1962. 1248 columns. ___[List of articles and terms for the letter "R"]Perechen' statei i terminov na bukvu "R" (dvadtsat' vos'moi tom) 4 p. ___ [Phonorecord appended to the article "Phychogenia"] Gramofonnaia plastinka k stat'e "Psikhogenii" (psikhogennye psikhozy) (MIRA 15:12)

(MEDICINE--DICTIONARIES)

PIROGOV, Nikolay Ivanovich [deceased]; GESELEVICH, A.M., prof.; ZAVALISHIN, N.I., prof., retsenzent; RUSANOV, S.A., prof., retsenzent; SEMEKA, S.A., general-mayor med. sluzhby, red. toma; RUFANOV, I.G., otv. red.; BAKULEV, A.N., zam. otv. red.; MAKSIMENKOV, A.N., zam. otv. red.; PETROV, B.D., zam. otv. red.; VISHNEVSKIY, A.M., red.; DAVYDOVSKIY, I.V., red.; KORNEYEV, V.M., red.;KOCHERGIN, I.G., red.; KROTKOV, F.G., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Collected works in eight volumes] Sobranie sochinenii v vos'mi tomakh. Moskva, Medgiz. Vol.7. [Works on military medicine and military-field surgery, 1871-1879] Trudy po voennoi meditsine i voenno-polevoi khirurgii, 1871-1879. 1960. 640 p. (MIRA 15:7)

(MEDICINE, MILITARY) (SURGERY, MILITARY)

BAKULEV, A.N., akademik, glav. red.; ZAVALISHIN, N.I., prof., zam. glav. red.; TIMAKOV, V.D., prof., zam. glav. red.; IL'ICHEVA, K.I., starshiy nauchnyy red.; OBYSOVA, Ye.S., starshiy nauchnyy red.; PAVLOVA, A.A., starshiy nauchnyy red.; BAKANOVA, T.D., nauchnyy red.; GRISHINA, L.A., starshiy tekhn. red.

[Large medical encyclopedia]Bol'shaia meditsinskaia entsiklopediia. Glav. red. A.N.Bakulev. Moskva, Gos. nauchn. izd-vo "Sovetskaia entsiklopediia." Vol.26. Poroshki - professional'nyi otbor. Izd.2. 1962. 1256 columns. [List of articles and terms for the letter "P" (26th vol.).]Perechen' statei i terminov na bukvu "P" (dvadtsat' shestoi tom) 4 p. [Phonograph record for the article "Heart defects" (Aortal defects of the heart)]Gramofonnaia plastinka k stat'e "Poroki serdtsa" (Aortal'nye poroki serdtsa). (MIRA 15:10)

(MEDICINE—DICTIONARIES)

BAKULEV, A.N., akademik, glavnyy red.; BRUSILOVSKIY, L.Ya., prof. [deceased], zamestitel' glavnogo red.; ZAVALISHIN, N.I., prof., zamestitel' glavnogo red.; TIMAKOV, V.D., prof., zamestitel' glavnogo red.

[Large medical encyclopedia] Bol'shaia meditsinskaia entsiklopediia. Glav.red. A.N.Bakulev. Moskva, Gos.nauch.izd-vo "Sovetskaia entsiklopediia". Vol.25. Plotnost' - porotsefalez. Izd.2. 1962. 1392 columns. [— List of articles and terms for the letter "p" (25th vol.)] — Perechen' statei i terminov na bukvu "p" (dvadtsat' piatyi tom) 5 p. [—Phonograph record for the article "Heart defects" (mitral defects of the heart)] — Gramofonnaia plastinka k stat'e "Poroki serdtsa" (mitral'nye poroki serdtsa).

(MEDICINE--DICTIONARIES)

ZAVALISHIN, N.I., prof., general-leytenant meditsinskoy slushby

N. I. Pirogov & his principles for the organization of medical service in warfare. Voen. med. zhur. no.2:14-23 F '59. (MIRA 12:7)
(MEDICINE, MILITARY AND NAVAL
contribution of N. I. Pirogov)
(BIOGRAPHIES,
Pirogov, N.I. (Rus))

BAKULEV, A.N., akademik, glav. red.; BRUSILOVSKIY, L.Ya., prof., zam. glav. red.; TIMAKOV, V.D., prof. red.; ZAVALISHIN, N.I., prof. red.; SHABANOV, A.N., prof., red.

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(MEDICINE—DICTIONARIES)

ZAVALISHIN, P.A.; KHITRUK, M.I.; ZUBAREV, N.G., laureat Stalinskoy premii, red.; DONSKOY, Yu., red.; LADNYY, Yu., tekhn. red.

[Efficiency promoters and inventors at the Kharkov Tractor Factory] Ratsionalizatory i izobretateli Khar'kovskogo traktornogo zavoda. Pod red. N.G. Zubareva. [Khar'kov] Khar'kovskoe knizhno-gazetnoe izd-vo, 1952. 47 p. (MIRA 11:9)

(Kharkov--Tractor industry)

ZAVALISHIN, P.I. (Reviewer)

"Testing radio materials and parts." D.M.Kazarnovskii. Reviewed by P.I.Zavalishin. Elektrichestvo no.5:95-96 My '54. (MLRA 7:6)
(Kazarnovskii, D.M.) (Radio--Apparatus and supplies)

ORG: None

TITLE: Charging cannon shells for firing

SOURCE: Tekhnika i vooruzheniye, no. 2, 1965, 58-60

TOPIC TAGS: artillery weapon, weapon fuse

ABSTRACT: The authors describe the equipment used for final preparation of cannon and mortar shells for firing operations. The equipment can be used under field conditions. It consisted of a folding table (1600 mm long, 850 mm wide, 900 mm high) carrying various tools and devices for removing blank plugs, fixing and punching ignitors. The table was made of wood. A [illegible]-mm shelf can be attached to the table for [illegible]

ZAVALISHIN, V. A.

ORLOV, V.M.; ZAVALISHIN, V.A.

Shortcomings of agrometeorological manuals and instructions.
Meteor.i gidrol. no.3:65-66 no.3:65-66 Mr '57. (MLRA 10:5)
(Meteorology, Agricultural)

ZAVALISHIN V. A.

AUTHORS: Orlov, V. M., Zavalishin, V. A. 50-1-14/26

TITLE: Experience With the Determination of Indices for the Speed of Development and the Optimum Terms of the Sowing of Buckwheat (Iz opyta opredeleniya pokazateley skorosti razvitiya i optimal'nykh srokov seva grechikhi).

PERIODICAL: Meteorologiya i Gidrologiya 1958, Nr 1, pp. 50-50 (USSR)

ABSTRACT: For determining these indices and the optimum terms of sowing buckwheat the sowing of this culture in various terms from May 15 to June 20 with interruptions between these terms of 10 or 5 days is carried out in the Hydrometeorological Technical School of Aleksinsk. The analysis of the obtained data permits to draw the following conclusions: 1) the best agrometeorological conditions for the sowing were between June 5 - 15, when effective temperatures of 300-350°C from the beginning of the warm period accumulated. 2) The warming-through of the arable layer of the soil cannot be considered an indication of the optimum term for the sowing of buckwheat. The time of accumulation of 360°C of effective temperatures ± 2-3 days with the taking into account of the meteorological conditions prevailing in the period of sowing may be taken as such an index for the district of Aleksinsk in the region

Card 1/2

Experience With the Determination of Indices for the Speed of Development and the Optimum Terms of the Sowing of Buckwheat. 50-1-14/26

of Tula. 3) The average values of the sums of effective temperatures in the interphase periods of the development of buckwheat of the sort "Bogatyr'" are:

a)	Sowing - sprouting of seed	77°
b)	sprouting - formation of raceme	177
c)	formation of raceme - flrescence	145
d)	florescence - ripening	489
e)	sowing - ripening	888
f)	sprouting - ripening	811

AVAILABLE: Library of Congress

1. Agriculture-USSR 2. Buckwheat-Genetics

Card 2/2

ZAVALISHIN, V.A.; ORLOV, V.M.

Observations on the rate of development of winter rye sown at different times. Sbor. rab. Mosk. gidromet. obser. no.1:29-33 '60. (MIRA 14:11)

(Aleksin District--Rye)
(Planting time)

ZAVALISHIN, V.A.; ORLOV, V.M.

Determining agrometeorological indices of the rate of development and optimum sowing dates for buckwheat. Sobr. rab. Mosk. gidromet. obser. no.1:39-43 '60. (MIRA 14:11)
(Buckwheat)
(Planting time)